PIKE PRECISION

Congratulations for choosing the right model! Your new Pike Precision.

The model is a handmade product, carefully packed for your convenience.

Please check that all items ordered are included and not damaged during transportation.

A basic model includes:

- 2 wing sections (left and right)
- 1 fuselage with nose cone and tail cone
- 2 v-tails
- 1 carbon joiner
- aileron and flaps horns (unless RDS version ordered)
- 2 pcs clevis couplers
- Wire harness
- 4 plastic servo covers

Additionally you can order:

- ballast set
- wing bags
- Fuse cover for sun protection

To complete a model you will need:

- 4 pcs metal geared servos for the wings. Min. 25Ncm/35oz.in
- 2 pcs 13mm servo for v-tail. Min. 20Ncm/30oz.in
- 8 clevises and 2mm threaded rods for the wings (or better 2,5mm)
- 4xAA Rx battery or equal and a sufficient switch
- a high quality receiver
- epoxy to glue in the servos and thin cyano (CA) to secure clevises
- strong clear tape (12mm wide) to join the wings and v-tail to the fuselage

Assembling the wing:

- Sand the surface of the servos and the servo trays where the servos will be glued.
- Connect the servos and the fuse harness to the respective channels on the receiver. Check that the aileron servo arms are set 90 degrees on the servo and that the transmitter also is set to neutral. Check that the flap servo arms are set identically to approximately 20 degrees (measured from the 90°-angle) towards the flap. The transmitter should later be set to an offset so that the flap servo arms are 90 degrees on the servos. With full butterfly the servo arms on the flaps are almost straight towards the flap. This ensures full deflection of the flaps for butterfly brake.
- Check again the servo settings and also set the offset of the flap servos. Check also that the servos move the right way.
- Mark where the servos will be glued in place by a pencil in the servo trays and
 ensure that the servo arm is aligned (straight line) to the line defined by the hole
 in the subspar and the flap horn. Some like to fix their servos to the spar. This
 ensures a very tight and slop free servo installation as the wing surface can bend
 a little.
- Glue the aileron and flap horns.
- Glue the servos in using epoxy. Use a proper amount of epoxy so that some epoxy will be pressed out on the sides of the servos when you push them in. Use some weight fixing the servos as long as the epoxy hardens to ensure that the servo fits perfect. If the epoxy is thin it is possible to add some thixotropy agent.
- Install the threads and clevises whilst the servo arms are set 90 degrees on the servos and the ailerons / flaps are set in neutral position. Secure the thread to the



- clevis with extra thin CA as this is a place with some slop. Check also thoroughly the clevis pins going into the horns and servo arms. There are clevises that can be poorly made in this special detail. Use the inner most hole on the servoarms possible to ensure full power of the servo yet providing full throw.
- It is recommended to install clear tape on the ends of the wings. This will prevent the paint being ripped off when the tape is applied / removed every time you go flying.
- Adjust the aileron throw to 20/12mm.
- Adjust the aileron throw on flaps to 9/6mm
- Adjust the crow brake flaps to as much as possible (70-85 degrees is good)
- Adjust the crowbrake on ailerons to 7mm up
- Adjust the camber for launch to 10mm flap and aileron equal.

 Camber for thermal is +3mm measured on flaps and equal along the whole trailing edge. More thermal camber might be used in special weather conditions.

 Camber/relex for speed is -1mm for F3B but for F3F neutral is used.
- Snap flap (elevator flap mix) can be used up to 10mm on full elevator throw. Beware snap flap might not be the most effective in all conditions / flying styles.
- Cut the servo covers carefully so that the servo horns fit underneath the bumps if needed.

Assembling the fuselage:

- Install the "fuse to wing"-harness in the fuselage. Roughen the green connector and fuselage fitting before you glue it.
- Install the receiver battery and receiver before servos. 2+2 AA batteries are recommended though 2+3 can also be fitted. It is recommended to pack the receiver in bubble plastic or equal to absorb shocks.

 New LiFe battery is possible. Ensure servos can use the voltage and secure the front end of the battery to absorb shocks. Use a voltage regulator if needed.
- Install the fuselage servos

Rudder throw +/- 6mm

- Install the receiver. If 2.4 receiver with long antennas is used there is a slot on
 the underside of the inner nose cone to tape on one antenna. Drill a hole so that
 the antenna comes out without making a sharp bend. Tape the antenna to the
 inner nose cone. The second (or more) antenna is taped on the receiver side
 making sure it is as free as possible and not hidden by electronics or wires.
 The outer nose cone is of glassfiber and signals will pass thru with no hindering. A
 range test will show that your installation is correct.
- Glue the 2mm clevis couplers to the pushrods after removing the outer Teflon layer of the pushrods and roughening the glassfiber surface. Pinch the coupler with a plier to ensure tight fit.
 Check the connection thoroughly.
 - Glue the pushrod tube to the fuselage between canopy and the leading edge
- Adjust the elevator so that it is in neutral checking top and bottom airfoil. Full
 throw is 5mm up and 5mm down. At full crow the elevator goes down
 approximately 5mm depending on crow settings for wing. It is good to ensure
 more down throw (+10mm) possible after crow brake is set.
 Launch setting is -1mm

Assembling the model:

Attach the two v-tails to the fuse and secure with a tiny piece of tape round the
front and lower part. Carefully push the ball link in place and check that they
move freely. Pinch the plastic with a plier to free them up if they are tight. The
ball link can be removed by using a flat screwdriver clicking it off again. Tape on
the tail cone.



- Adjust the tow hook to 100mm from the leading edge.
- Attach the wing with clear tape to secure at top and around leading edge.
- Check and adjust the CG (center of gravity). A suitable CG to start off is 100-102mm from leading edge.
- Check range according to transmitter specifications. If you can not get the necessary range you need to:
 - 1) Check antenna locations
 - 2) Try another transmitter
 - 3) Try another receiver

Settings:

• All the latest detailed settings can be found on www.F3J.com. These are settings from some of the world's best pilots. You will find these setting a very good starting point.

Model can not stay long in the sun without silver protection covers (including fuselage) to prevent excessive heating up of the model as there could appear some deformations of model parts when model is overheated or the surface could get distortions.

F3B joiner is made of high modulus carbon fibers UMS
F3F joiner is made of standard carbon fibers
After harder landings it is necessary to check the joiner and look for cracks as it could cause failure of complete model in the next flights.

We hope you will be satisfied with your new model. If you have any questions be sure to look at our webpages. Additional info about the setup and detailed pictures can be found there.

Regards Samba Model

Webpage: www.F3J.com / Email: samba@f3j.com

